Collin County Regional Trails Master Plan

Commissioners Court May 7, 2012







RTMP Overall Goal

Develop a Collin County Regional Trails Master Plan that provides coordination and connectivity between cities within the County for future trail development.



RTMP Objectives

- Objectives
 - Build upon the planning efforts of cities within and adjacent to Collin County and other regional studies.
 - Define high-priority corridors that connect two or more cities within or adjacent to Collin County to encourage corridor preservation and multi-jurisdictional implementation.
 - Identify and address gaps and primary potential trail connections between cities in order to provide intercity linkages.



RTMP Objectives

- Objectives (continued)
 - Ensure that every city and town in the County is connected to the Collin County Regional Trail System.
 - Recommend design guidelines and facility hierarchy for the Regional Trail System.
 - Provide a tool that gives guidance to Collin County for evaluating funding requests and coordinating trail projects with other capital projects.



Study Area – 31 Municipalities

- Allen
- Anna
- Blue Ridge
- Carrollton
- Celina
- Dallas
- Fairview
- Farmersville
- Frisco
- Garland
- Josephine

- Lavon
- Lowry Crossing
- Lucas
- McKinney
- Melissa
- Murphy
- Nevada
- New Hope
- Parker
- Plano

- Princeton
- Prosper
- Richardson
- Royse City
- Sachse
- Saint Paul
- The Colony
- Van Alstyne
- Weston
- Wylie



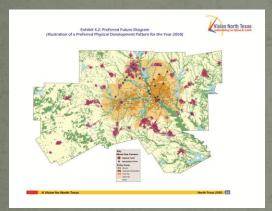
Non-Municipal Agency Coordination

- TxDOT
- Oncor
- NTMWUD
- USACE
- DART
- NTTA
- NCTCOG

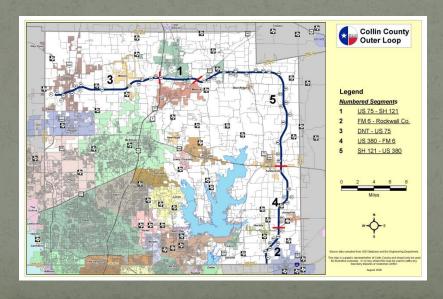


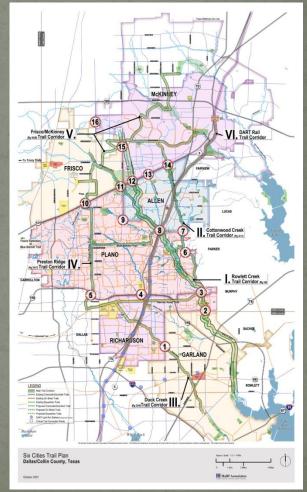


Planning Coordination





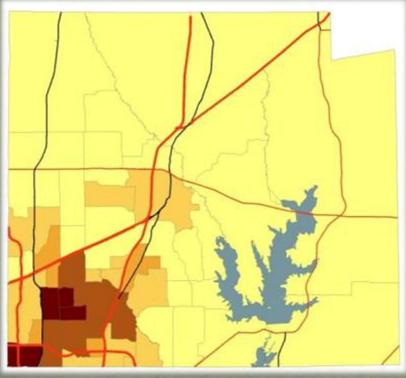




RTMP Phase 1

Demographic & Growth Forecast Analysis





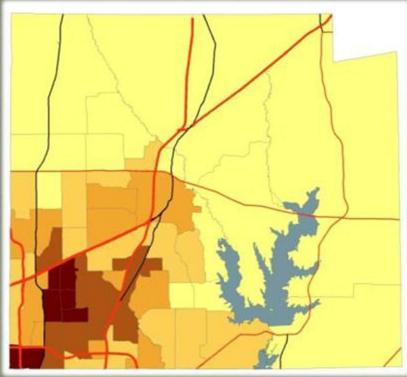
2000

Density



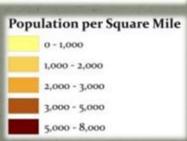
Demographic & Growth Forecast Analysis

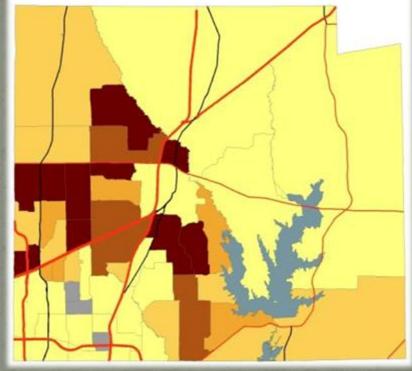




2010

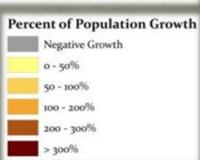
Density





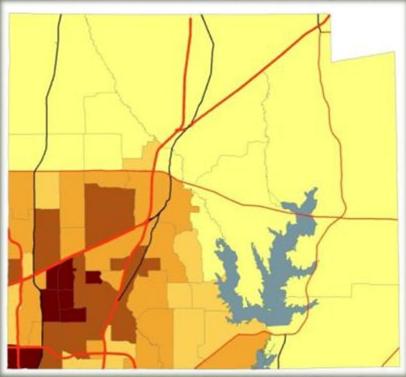
2000 - 2010

Growth



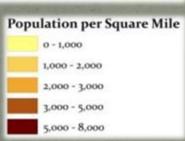
Demographic & Growth Forecast Analysis

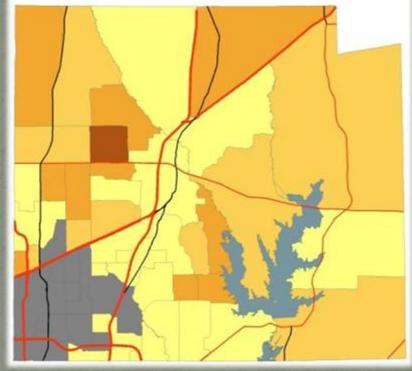




2020

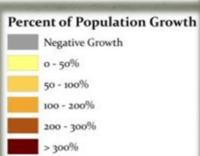
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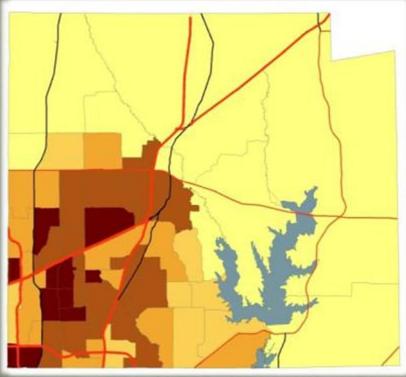
2010 - 2020

Growth



Demographic & Growth Forecast Analysis

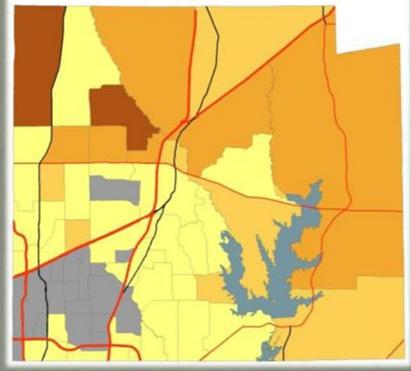




2030

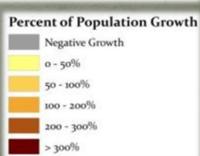
Density





2020 - 2030

Growth





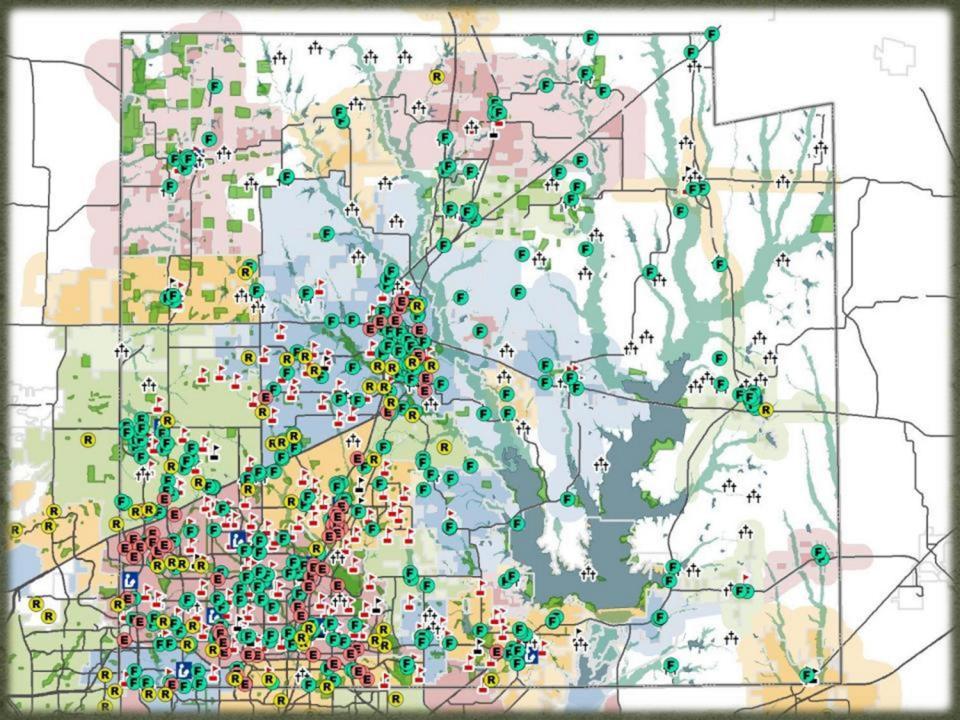
Inventory of Key Destinations

- Regional and Local Parks, Open Spaces, and Lakes
- Schools (K-8 / 9-12)
- Public and Civic Facilities
- Recreation Centers and Facilities
- Major Employers (250+ employees)









Review of Existing & Planned Trails

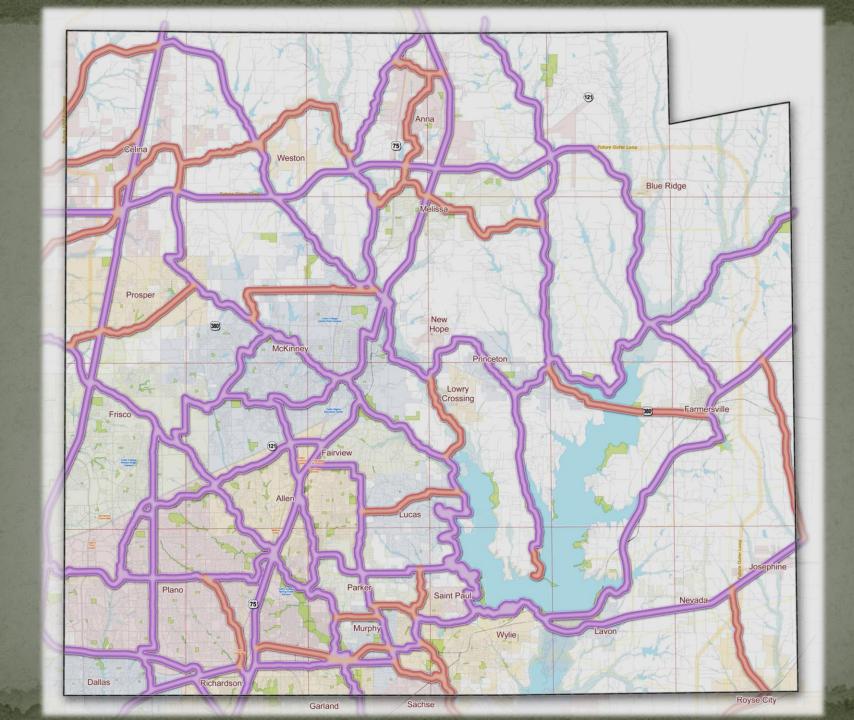


- Review of City Trail Systems, Trail Plans, and Published Trail Standards
- Existing Conditions
 - 269 Miles of Existing/Programmed Trails in the County
 - 727 Miles of Planned/Proposed Trails in the County





RTMP Phase 2





Resulting Trail Mileage

	Existing/Programmed	Planned/Proposed	Total
Hard Surface	228.4	656	884.4
Soft Surface	22.1	48.7	70.8
Equestrian	16.9	15.5	32.4
Mixed Surface	1.3	6.8	8.1
Collin County Proposed*	n/a	163	163
Total	268.7	890	1,158.7

	Existing/Programmed	Planned/Proposed	Total
Major Trail Corridors**	76.7	431	507.7

^{*}Major Trail Corridors that do not overlap any other existing or planned facility

^{**}For Major Trail Corridors, include the portion that follows the railroad west of the County Line through Frisco, The Colony, and Carrollton



Level of Service

	2010* (782,341)	2040 (1,526,634)
Hard Surface	3,425	1,726
Soft Surface	35,400	21,563
Equestrian	46,292	47,118
Mixed Surface	601,801	188,473
Total	2,912	1,318

^{*2010} United States Census Redistricting Data

^{**}NCTCOG 2040 Population Estimate



Key Intercity Connections

- Number of points analyzed: 32
- Mostly in southwest quadrant due to more challenging physical constraints



onnection Point #G2

Loostion: Along Waterview Purkway / Independence Parkway or Canyon Creek at President George Bush Turnpike

Otties Connected: Plano and Richardson

Existing / Planned Facilities

· Richardson: concrete sidepaths (planned)

Keylo

- The preferred connection alignment follows the creek under the President George Bush Turnpike bridge. There is adequate vertical and lateral clearance for a rull in this location. A bends or shelf for a trail should be constructed to keep the trail above the waterline during minor rain events.
- 2. The alternative alignment is to follow Renner Road and Waterstew Parkway by means of sidepaths. With this alternative, the existing ship into islands, outh ramps, and crosswalks will need to be improved at both each of the Independence! / Waterstew overpass, in addition, it would be necessary to relocate the attacks and tueffs again on rated.

would need to be enhanced with crosswalks and curb namps.

 With either abgument option, the existing sidewalk between the milroad and Independence on the north side of President George Bush Turnpike in Plano vall need to be widened or replaced with a trul of adequate width (10 maintrum).



Looking routh under the President George Bush Turnpike bridge





Thails - Existing & Planned

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Generators & Attractors

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Literators

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Schools - Oth Grade and No.

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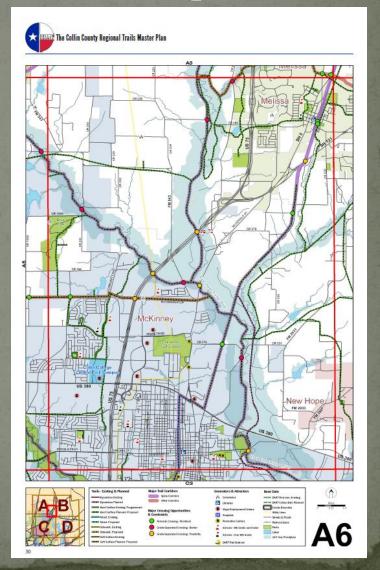
General Guidelines for Major Trails

Multi-Use Trail Types	Minimum Tread Width	Minimum Corridor Width	Notes	
Urbanized	12'	20'	Concrete; width depending	
Exclusive ROW in Higher Density Areas	(14'-16' pref.)	(32' pref.)	upon adjacent densities and volume of use	
Greenway	10'	25'	Concrete or pervious pavement	
Natural Areas in an Urban Environment	(12' pref.)	(32' pref.)	in ecologically sensitive areas	
Two-way Sidepath	10'	18'	Concrete; includes shoulders	
Along a Roadway	(12' pref.)	(25' pref.)	and a 5' buffer between path and roadway	
Pioneer Trail	8'	25'	Corridor preservation;	
Rural Areas	(10' pref.)	(32' pref.)	natural surface or asphalt acceptable	



Recommendations & Final Report

- Multiple rounds of revisions
- Reviewed by County and City Staff
- Updated numerous datasets, including schools, utility lines, major employers, etc.



Questions & Answers